

## ILLUMINATION DEVICE

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### ABSTRACT

10 Illumination devices comprising a light source and a light fiber are reported.  
The light fiber is optically coupled to the light source such that at least a portion of  
the light emitted from the light source impinges on the input end of the light fiber.  
15 The light fiber comprises an elongate polymeric core having an input end for  
receiving light from a light source, an output end for emitting light transmitted  
through the core, and a lateral surface extending along a longitudinal axis of the core  
between the input end and the output end. The light fiber includes a light-emitting  
region including at least one optical element that directs light traveling through the  
20 light fiber out of at least a portion the lateral surface of the light fiber in a direction  
generally transverse to the longitudinal axis. A continuous outer cladding layer  
comprising a polymeric material having a lower index of refraction than the core  
extends over the lateral surface of the core and the optical elements.

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